



COPY OF PAPERS
ORIGINALLY FILED

Applicant : Randall B. Lauffer et al.

Art Unit : 1619

Serial No. : 09/887,706

Examiner : M. Hartley

Filed : September 8, 2000

Title : CONTRAST-ENHANCED DIAGNOSTIC IMAGING METHOD FOR
MONITORING INTERVENTIONAL THERAPIES

RECEIVED

MAY 02 2002

Commissioner for Patents
Washington, D.C. 20231

TECH CENTER 1600/2800

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (2 pages); and
3. A Return Postcard.

Please date stamp and mail the enclosed postcard.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 4/11/02

Teresa A. Lavoie

Teresa A. Lavoie, Ph.D.

Reg. No. 42,782

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60080724.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit 4-12-02

Signature Trisha J. Anderson

Typed or Printed Name of Person Signing Certificate
Trisha J. Anderson



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

COPY OF PAPERS
ORIGINALLY FILED

Applicant : Randall B. Lauffer et al.

Art Unit : 1619

Serial No. : 09/887,706

Examiner : M. Hartley

Filed : September 8, 2000

Title : CONTRAST-ENHANCED DIAGNOSTIC IMAGING METHOD FOR
MONITORING INTERVENTIONAL THERAPIES

RECEIVED

Commissioner for Patents
Washington, D.C. 20231

MAY 02 2002

TECH CENTER 1600/2900

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 08/942,989, filed on October 2, 1997. The references listed on the attached form PTO-1449 were submitted to and/or cited by the Patent Office in the prior application and, copies therefore, are not provided in this application.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Date: 4/11/02

Respectfully submitted,

Teresa A. Lavoie

Teresa A. Lavoie, Ph.D.

Reg. No. 42,782

Fish & Richardson P.C., P.A.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696
60080701.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit 4-12-02

Signature Trisha J. Anderson

Trisha J. Anderson

Typed or Printed Name of Person Signing Certificate

Substitut Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
13498-009002Application No.
09/887,706Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant
Randall B. Lauffer et al.Filing Date
September 8, 2000Group Art Unit
1619

RECEIVED

MAY 02 2002

U.S. Patent Documents

TECH CENTER 1600/2900

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|---------------|-------|----------|----------------------------|
| | AA | 5,094,848 | 03/1992 | Brixner | | | |
| | AB | 5,250,285 | 10/1993 | Lauffer | | | |
| | AC | 5,649,537 | 07/1997 | Anelli et al. | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | AD | WO 95/32741 | 12/07/95 | PCT | | | | |
| | AE | WO 96/23526 | 08/1996 | PCT | | | | |
| | AF | WO 98/05625 | 02/12/98 | PCT | | | | |
| | AG | WO 00/38738 | 07/06/00 | PCT | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|--|
| | AH | Aime et al., "Yb(III)DOTMA as Contrast Agent in CSI and Temperature Probe in MRS," <u>Proc. Soc'y Mag. Resn.</u> , August 19-25, 1995, 2:1109, ISSN 1065-9889 |
| | AI | Carter et al., "Structure of Serum Albumin," <u>Adv. Protein Chem.</u> , 1994, 45:153-203 |
| | AJ | Chu, "The Quantitative Analysis of Structure-Activity Relationships," <u>Burger's Medicinal Chemistry</u> , 1980, 4 th Edition, Part 1, pp. 393-418 |
| | AK | Cline et al., "MR Temperature Mapping of Focused Ultrasound Surgery," <u>Mag. Resn. Med.</u> , 1994, 31:628-636 |
| | AL | Dodd et al., "MRI Monitoring of the Effects of Photodynamic Therapy on Prostate Tumors," <u>Proc. Soc'y Mag. Resn.</u> , August 19-25, 1995, 3:1368, ISSN 1065-9889 |
| | AM | Dupas et al., "Delineation of Liver Necrosis Using Double Contrast-Enhanced MRI," <u>J. MRI</u> , 1997, 7(3):472-477 |
| | AN | He et al., "Atomic Structure and Chemistry of Human Serum Albumin," <u>Nature</u> , 1992, 358:209-215 |
| | AO | Honda et al., "Percutaneous Hot Saline Injection Therapy for Hepatic Tumors: An Alternative to Percutaneous Ethanol Injection Therapy," <u>Radiology</u> , 1994, 190:53-57 |
| | AP | Horrocks et al., "Lanthanide Ion Luminescence in Coordination Chemistry and Biochemistry," <u>Progr. Inorg. Chem.</u> , 1984, 31:1-104 |
| | AQ | Kragh-Hansen, "Molecular Aspects of Ligand Binding to Serum Albumin," <u>Pharm. Rev.</u> , 1981, 33:17-53 |
| | AR | Lauffer, "Paramagnetic Metal Complexes as Water Proton Relaxation Agents for NMR Imaging: Theory and Design," <u>Chem. Rev.</u> , 1987, 87:901-927 |
| | AS | Leo et al., "Partition Coefficients and Their Uses," <u>Chem. Rev.</u> , 1971, 71:525-616 |

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COPY OF PAPERS
ORIGINAL FILEDCOPY OF PAPERS
ORIGINAL FILED

| | | | |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 13498-009002 | Application No. 09/887,706 |
| | Applicant Randall B. Lauffer et al. | | |
| | Filing Date September 8, 2000 | Group Art Unit 1619 | MAY 02 2002 |

RECEIVED

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|--|
| | AT | Nagel et al., "Contrast-Enhanced MR Imaging of Hepatic Lesions Treated with Percutaneous Ethanol Ablation Therapy," <u>Radiology</u> , 1993, 189:265-270 |
| | AU | Pauser et al., "Evaluation of Efficient Chemoembolization Mixtures by Magnetic Resonance Imaging of Therapy Monitoring: An Experimental Study on the VX2 Tumor in the Rabbit Liver," <u>Cancer Res.</u> , 1996, 56:1863-1867 |
| | AV | Poorter et al., "Noninvasive MRI Thermometry with the Proton Resonance Frequency (PRF) Method: In Vivo Results in Human Muscle," <u>Mag. Resn. Med.</u> , 1995, 33:74-81 |
| | AW | Rossi et al., "Percutaneous RF Interstitial Thermal Ablation in the Treatment of Hepatic Cancer," <u>AJR</u> , 1996, 167:759-768 |
| | AX | Saint Jalmes, "Precision in Temperature Measurement via T ₁ or Diffusion Imaging," <u>Proc. Soc'y Mag. Resn.</u> , August 19-25, 1995, 2:1072, ISSN 1065-9889 |
| | AY | Schwarzmaier et al., "Magnetic Resonance Imaging of Microwave Induced Tissue Heating," <u>Mag. Resn. Med.</u> , 1995, 33:729-731 |
| | AZ | Villringer et al., "Dynamic Imaging with Lanthanide Chelates in Normal Brain: Contrast Due to Magnetic Susceptibility Effects," <u>Mag. Resn. Med.</u> , 1988, 6:164-174 |
| | AAA | Vogl et al., "Recurrent Nasopharyngeal Tumors: Preliminary Clinical Results with Interventional MR Imaging-Controlled Laser-Induced Thermotherapy," <u>Radiology</u> , 1995, 196:725-733 |
| | ABB | Webb et al., "Measurement of Microwave Induced Heating of Breast Tumors in Animal Models Using Cobalt Based NMR," <u>Proc. Soc'y Mag. Resn.</u> , August 19-25, 1995, 1:72, ISSN 1065-9889 |
| | ACC | Webb et al., "Microencapsulation of Fluorine-Containing Phase Transition Agents for Monitoring Temperature Changes in vivo," <u>Proc. Soc'y Mag. Resn.</u> , August 6-12, 1994, 3:1574, ISSN 1065-9889 |

**COPY OF PAPERS
ORIGINALLY FILED**

| | |
|--|-----------------|
| Examiner Signature | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |